

# BM-575/577

## SERVICE MANUAL

*US Model*

BM-575/577

*AEP Model*

BM-577



Photo : BM-577

### SPECIFICATIONS

#### Tape

(**MICROCASSETTE™**) (normal position type)

#### Recording system

BM-577: 4-track 2-channel monaural  
BM-575: 2-track 1-channel monaural

#### Speaker

Approx. 2.8 cm (1 1/8 in.) dia.

#### Tape speed

2.4 cm/s (9 1/2 ips), 1.2 cm/s (4 1/2 ips)

#### Frequency response

BM-577: 250 to 4,000 Hz (at 2.4 cm/s)  
BM-575: 300 to 3,500 Hz (at 2.4 cm/s)

#### Input

Microphone jack (minijack) sensitivity 0.2 mV for low impedance microphone

#### Output

Earphone jack (minijack) for 8 - 300 ohms earphone

#### Power output

150 mW (at 10 % harmonic distortion)

#### Battery life

Continuous recording hours with the built-in microphone:  
Approx. 9 hours (average) with alkaline batteries.  
Approx. 2 hours with a rechargeable battery after charged for 5 hours.

#### Power requirements

3V DC

- Two size AAA (R03) batteries (not supplied)

- Sony BP-43 rechargeable battery pack (not supplied)

DC IN 3 V jack accepts:

- Sony AC-E30HG AC power adaptor (not supplied) for use on 120 V AC, 60 Hz (US model) or 220—230V AC, 50/60Hz (AEP model)
- Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

#### Dimensions (w/h/d) (incl. projecting parts and controls)

Approx. 60 x 122 x 23.4 mm (w/h/d)

(2 3/8 x 4 7/8 x 15/16 in.)

#### Mass

Approx. 155 g (5.5 oz.)

Approx. 185 g (6.5 oz.) (incl. batteries and cassette)

#### Supplied accessory

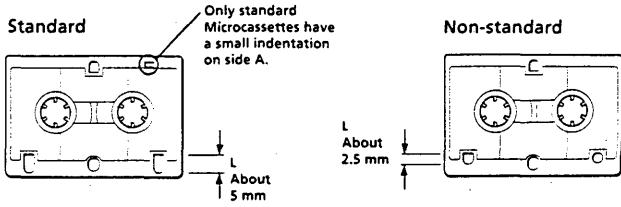
Carrying case (1) (BM-577 only)

Design and specifications are subject to change without notice.

Model Name Using Similar Mechanism	BM-575	BM-540
BM-577	BM-560	
Tape Transport Mechanism Type	BM-575	MB-575-50
BM-577	MB-577	MB-577-50

#### Use only standard Microcassettes with this unit.

Non-standard microcassettes cannot be used because their "L" dimension (see illustration) is different.



Use the AC-E30HG AC power adaptor (not supplied). Connect the adaptor to the DC IN 3V jack and to a wall outlet. Do not use any other AC power adaptor.

#### Polarity of the plug



#### NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**MICROCASSETTE™ DICTATOR**  
**SONY®**



# SECTION 1

## GENERAL

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This section is extracted from instruction manual.

### Welcome!

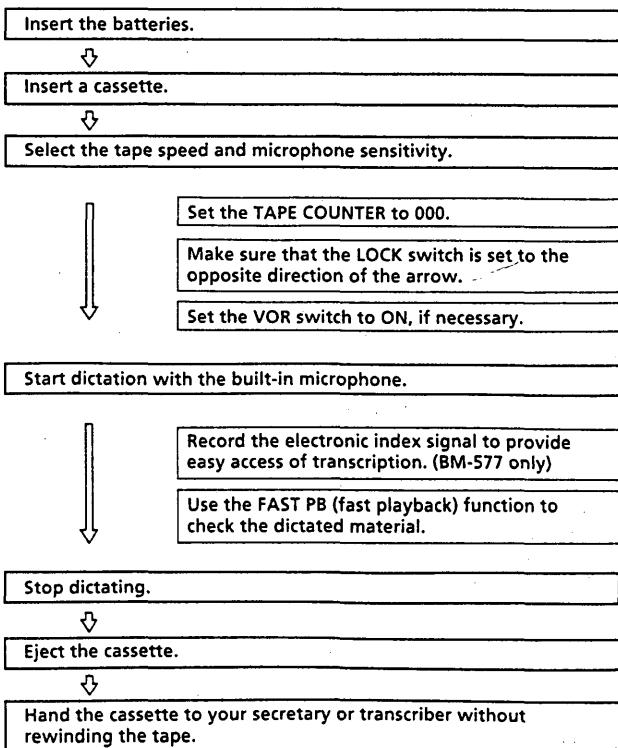
Thank you for purchasing the Sony Microcassette™ Dictator. Some features are:

- Simple operation with a slide-type function lever.
- You can put electronic indexing marks on recording (BM-577 only).
- Three BATT lamps (including the DICT/BATT lamp) indicate the battery condition step by step (BM-577 only).
- VOR (Voice Operated Recording) system that starts and stops recording automatically in response to the sound, to save tapes and batteries.
- Three-digit tape counter for indexing the tape contents.
- FAST PB (fast playback) function that lets you listen to the tape with high speed.
- LOCK switch prevents the unit from accidental operation.
- 3-way powering system: batteries, AC house current and car battery.
- Tape-end alarm sounds at the end of the tape.

### About This Manual

The instructions in this manual are for 2 models. The BM-577 is the model used for illustration purposes. Any differences in operation are clearly indicated in the text, for example, "BM-577 only."

### Operation Flow Chart



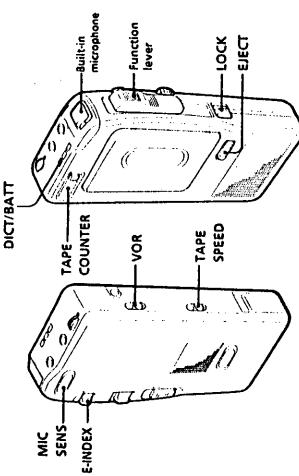
## ► Operating the Unit

### Putting Marks during Recording for Easy Access (BM-577 only)

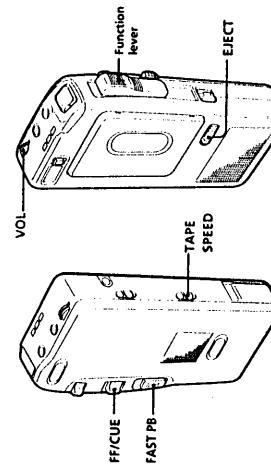
Press E-INDEX lightly when you have special instructions for your secretary about the material or mark the end of the letter. An electronic index signal will be recorded on the tape. This signal is the same as the LTR signal of the Sony transcriber. When your secretary uses the Sony transcriber equipped with auto-stop function, the tape automatically stops at each index signal when it is rewound or rapidly advanced. Your secretary will be able to search a necessary dictation easily.

#### Note

The cue-maker function of some Sony microcassette-corder may not operate on the electronic indexing mark recorded with the BM-577, because the cue-maker function and the electronic indexing function have no effect each other.



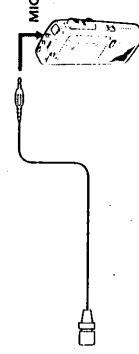
### Listening to the Dictation



Make sure that the EJECT switch is set to the opposite direction of the arrow.

### Dictating with an External Microphone or with Telephone Recording Adaptor

Connect the microphone to the MIC jack. When connecting the electret condenser microphone with a plug-in power system, the power of the microphone is supplied from this unit. For telephone recording, connect the TL-4 telephone recording adaptor (not supplied) to the MIC jack. For details, refer to the TL-4 instruction manual.



#### Recording time\*

#### Set to

60 minutes	2.4 cm**
120 minutes	1.2 cm

\* Using both sides of the MC-60BM Microcassette.

\*\* For optimum sound (recommended for normal use), set to 2.4 cm. Set the MIC SENS (microphone sensitivity) selector to the desired position.

#### Use for

#### Set to

Normal use	DICT (dictation)
Recording a conference or telephone conversation	CUE (conference)

#### 5 Slide up the function lever to DICT (dictation).

6 Speak into the microphone. The DICT/BATT lamp flashes depending on the strength of the sound during recording.

#### 7 To stop dictating, slide down the function lever to STOP.

To eject a cassette, slide the EJECT lever.

#### To economize the tapes and batteries

Set the VOR switch to ON. The tape moves only when sound is picked up, and stops automatically when sound is no longer detected. The DICT/BATT indicator goes out, thus the minimum amount of tape is used.

#### To index the tape contents

Set the TAPE COUNTER to 00 by pushing the reset button before dictating.

#### To monitor the recording

Connect an earphone to the EAR (earphone) jack.

#### To listen to the just-recorded contents while dictating

Slide down the function lever to B SPACE (back space), and release it at the desired point. The tape reaches the end. Slide the function lever to STOP.

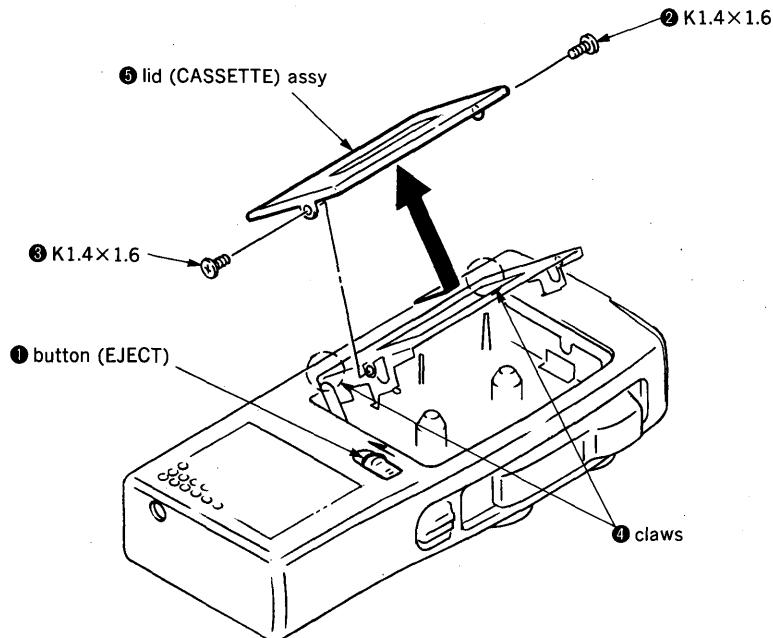
#### When a beep sounds and the DICT/BATT lamp goes out

Use the BE-9H cassette eraser (not supplied).

## SECTION 2 DISASSEMBLY

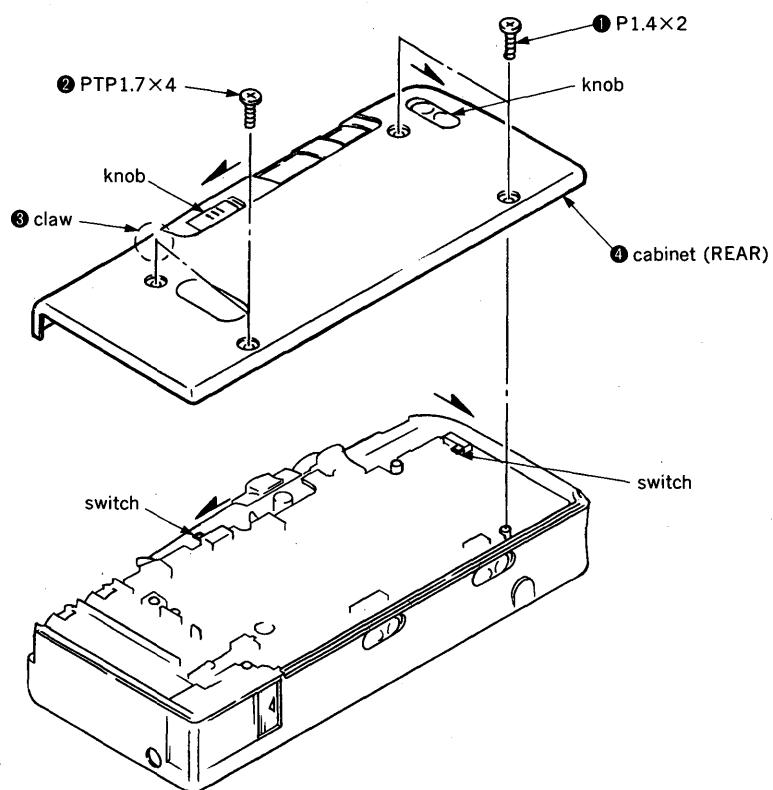
Note : Follow the disassembly procedure in the numerical order given.

### 2-1. LID (CASSETTE) ASSY

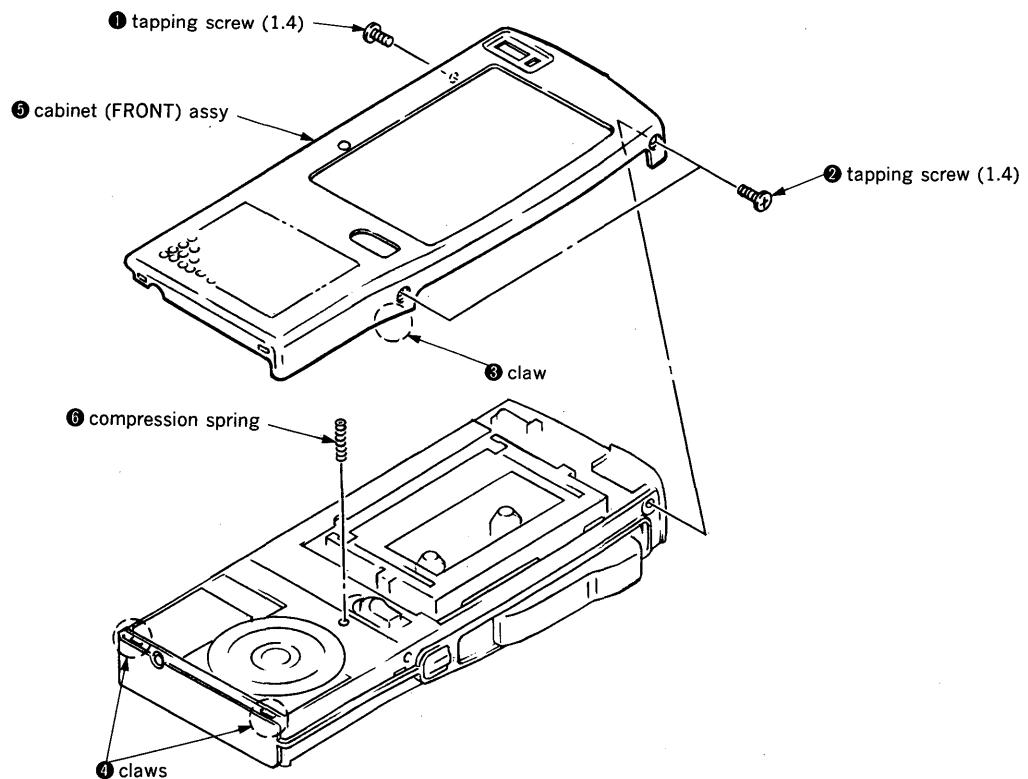


### 2-2. CABINET (REAR)

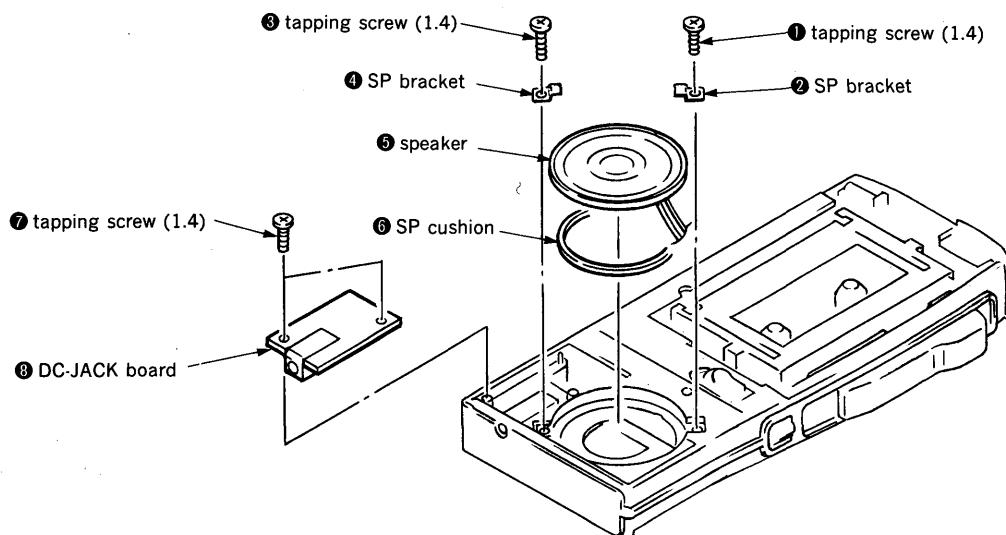
Note : On install, set to the knobs and switches.



### 2-3. CABINET (FRONT) ASSY

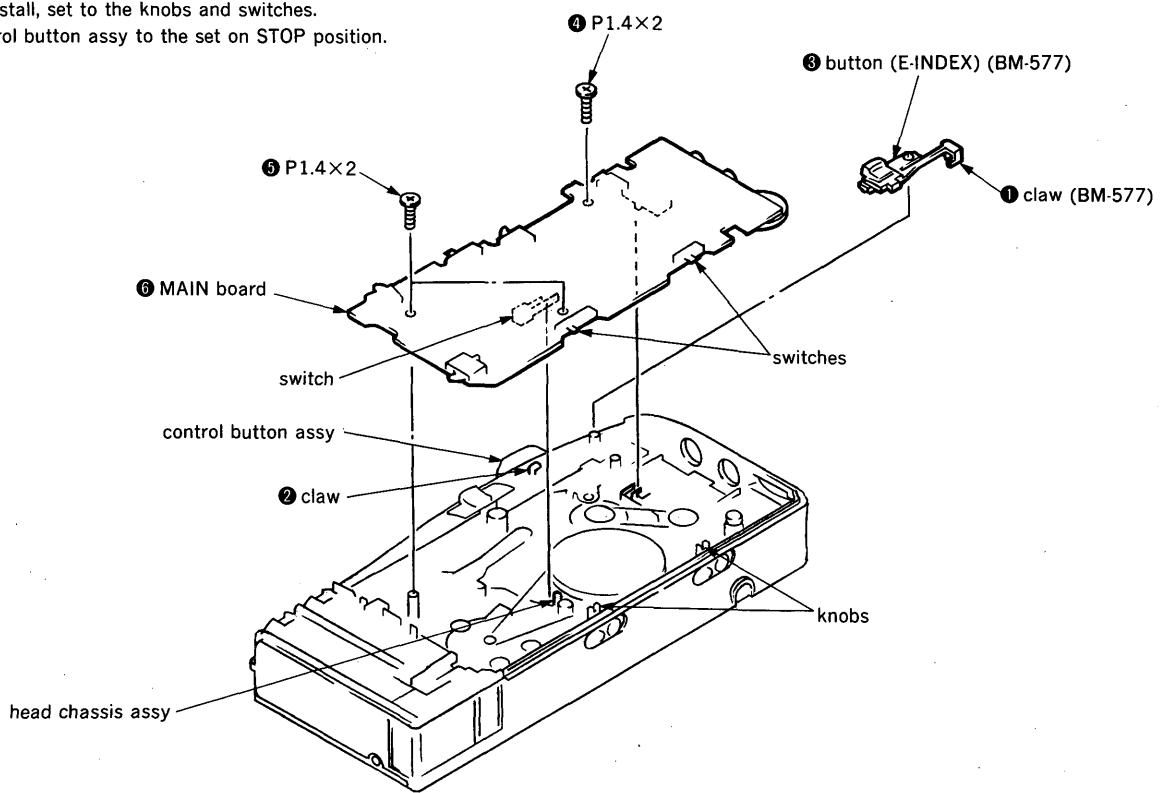


### 2-4. SPEAKER/DC-JACK BOARD



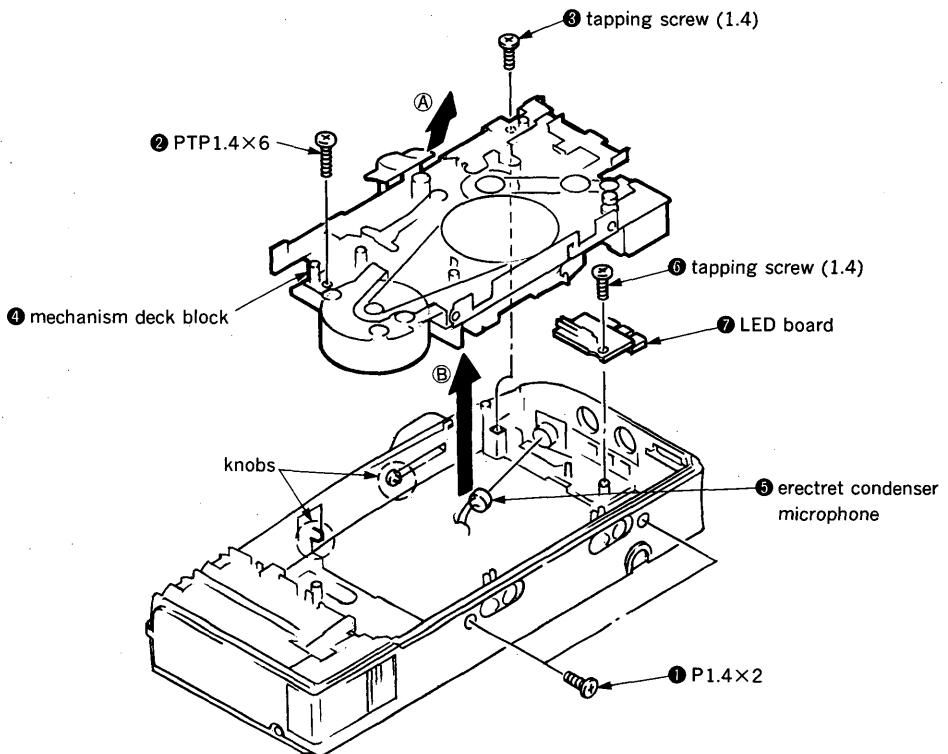
## 2-5. MAIN BOARD

Note: On install, set to the knobs and switches.  
Control button assy to the set on STOP position.

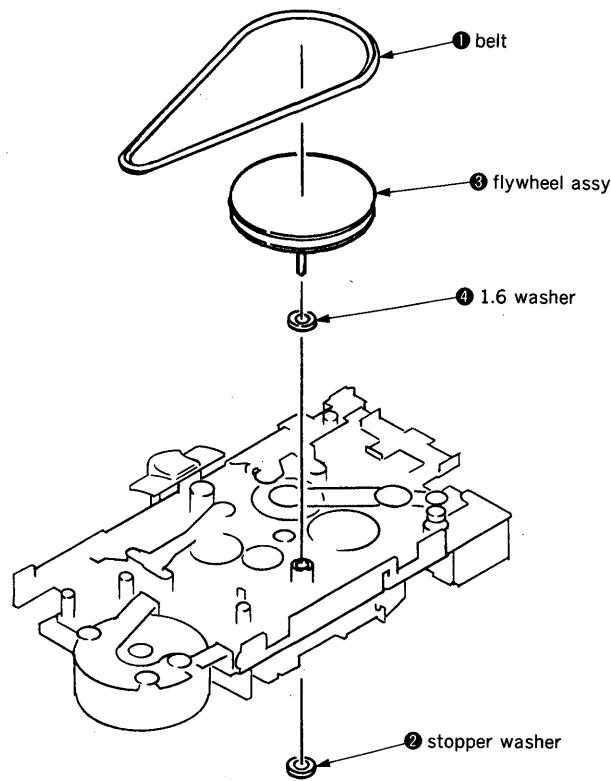


## 2-6. MECHANISM DECK BLOCK

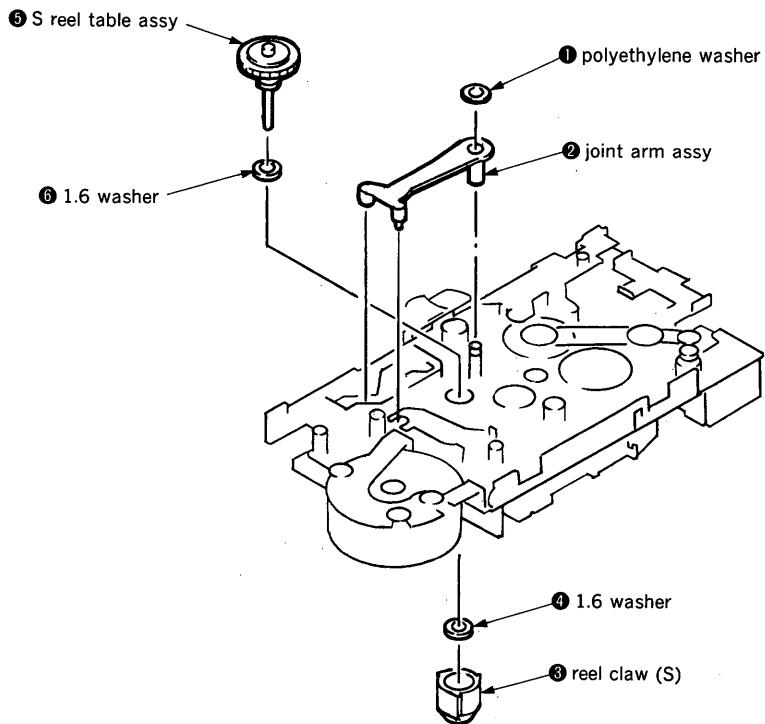
Note: On install, set to the knobs and lever of mechanism deck block.



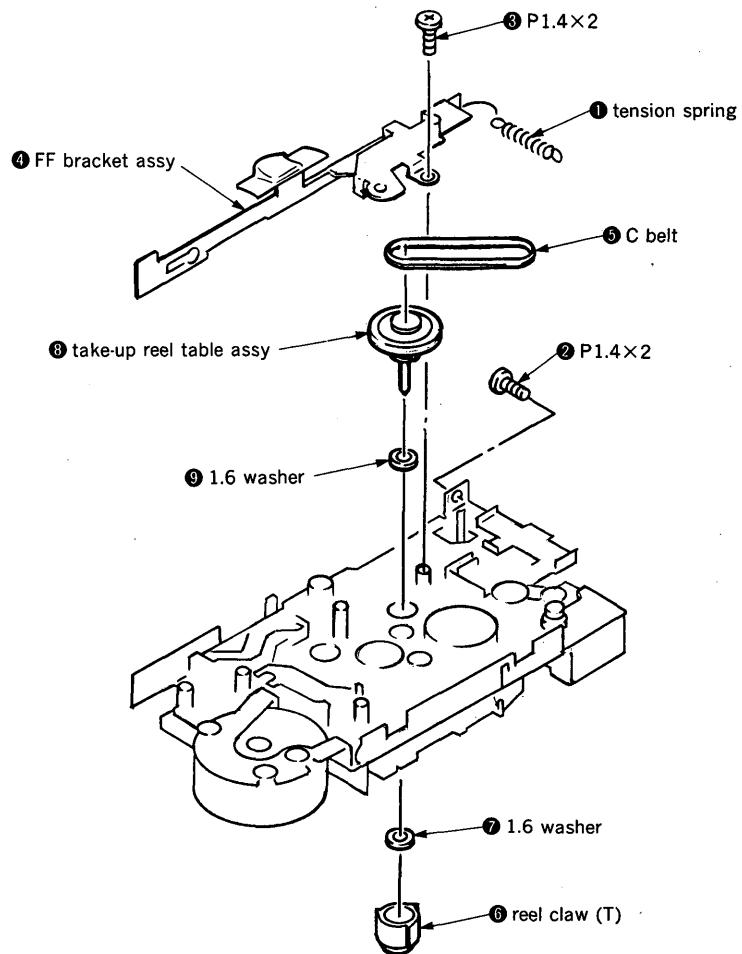
## 2-7. FLYWHEEL ASSY



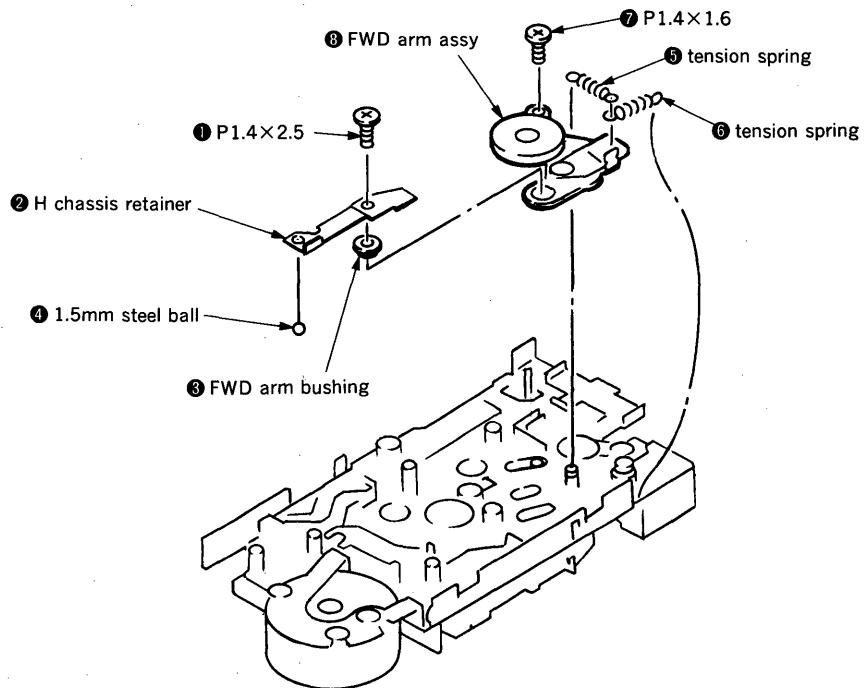
## 2-8. S REEL TABLE ASSY



## 2-9. TAKE-UP REEL TABLE ASSY



## 2-10. FWD ARM ASSY



## SECTION 3 MECHANICAL ADJUSTMENTS

### PRECAUTION

- Clean the following parts with a denatured alcohol moistened swab:  
record/playback head (BM-577)      erase head (BM-577)  
record/playback/erase head (BM-575)      pinch roller  
rubber belts      capstan idlers
- Demagnetize the record/playback/(erase) head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage (dc 2.5V) unless otherwise noted.

• Switches and control should be set as follows unless otherwise specified.

MIC SENS selector	: CONF
TAPE SPEED selector	: 2.4cm
FAST PB switch	: OFF
VOR switch	: OFF
VOL control	: mechanical center

### Torque Measurement

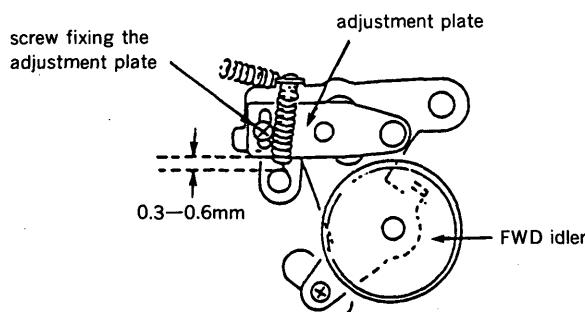
Mode	Torque meter (Cassette type)	Meter reading
LISTEN	CQ-103M	5–12g·cm (0.069–0.167 oz·inch)
FF/CUE	CQ-201M	more than 5g·cm (more than 0.069 oz·inch)
B. SPACE	CQ-201M	more than 14g·cm (more than 0.194 oz·inch)

### Tape Tension Measurement

Mode	Tension meter (Cassette type)	Meter reading
LISTEN	CQ-403M	25–55g (0.88–1.94 oz)

### Timing Adjustment

- Take-up reel spindle should rotate at the same time as pinch roller or earlier than pinch roller in STOP to LISTEN/DICT mode.  
Confirm that the pinch roller presses to capstan and they rotate.
- When they are not correctly rotate, adjust the place of adjustment plate so that it is wide.



## SECTION 4 ELECTRICAL ADJUSTMENTS

### PRECAUTION

- Demagnetize the record/playback/(erase) head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage (dc 2.5V) unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)

• Switches and control should be set as follows unless otherwise specified.

MIC SENS selector	: CONF
TAPE SPEED selector	: 2.4cm
FAST PB switch	: OFF
VOR switch	: OFF
VOL control	: mechanical center

### Test Tape

Type	Signal	Used for
WS-24	3kHz, -10dB	Tape Speed (2.4cm) Adjustment
WS-12	3kHz, -10dB	Tape Speed (1.2cm) Adjustment
S-2-A030	3kHz, -20dB	Head Azimuth Adjustment

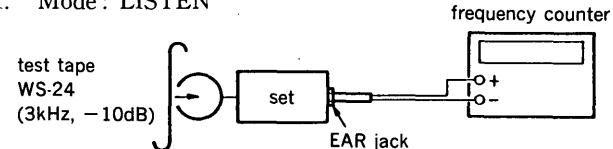
### Tape Speed (2.4cm) Adjustment

#### Setting :

TAPE SPEED selector : 2.4cm

#### Procedure :

- Mode : LISTEN



- Adjust RV102 so that the frequency counter reads 2,990 to 3,010Hz.

Adjustment Location : See page 10.

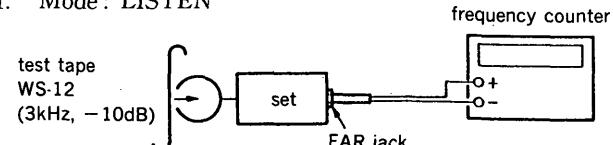
### Tape Speed (1.2cm) Adjustment

#### Setting :

TAPE SPEED selector : 1.2cm

#### Procedure :

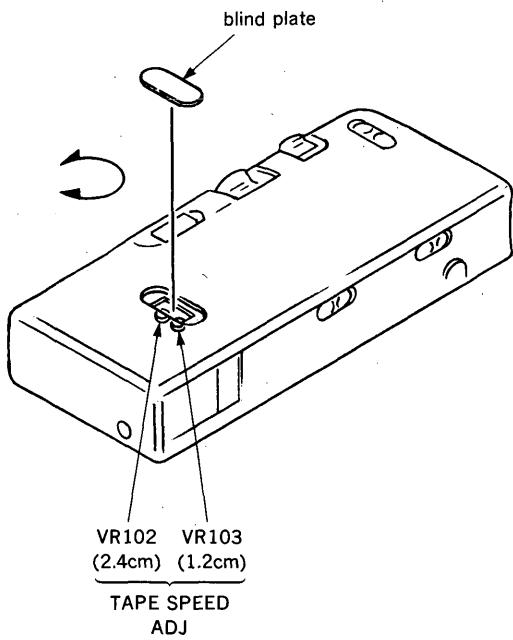
- Mode : LISTEN



- Adjust RV103 so that the frequency counter reads 2,990 to 3,010Hz.

Adjustment Location : See page 10.

### Adjustment Location :



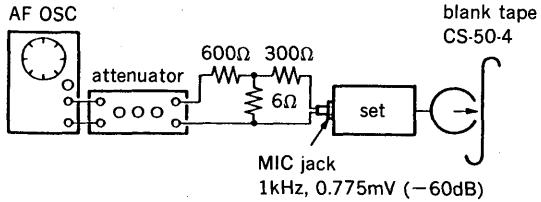
### Record Bias Adjustment

#### Setting :

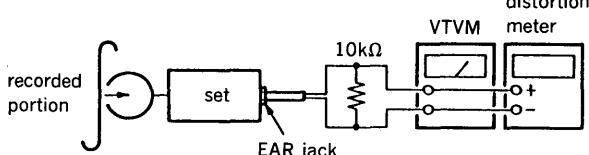
TAPE SPEED selector : 2.4cm

#### Procedure :

- Mode : DICT (record)



- Mode : LISTEN (playback)

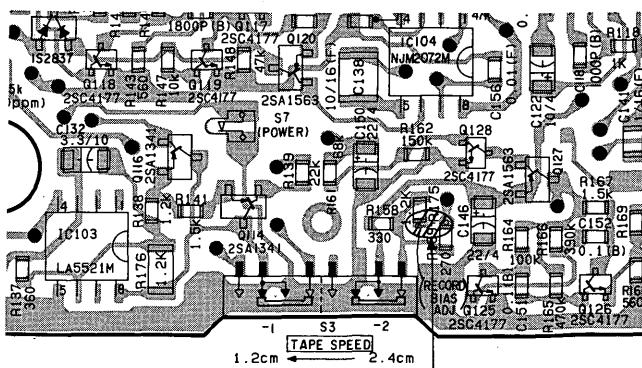


- LISTEN (playback) the signal recorded in step 1.
- Turn the VOL control so that the VTVM reads within 0dB.
- Confirm that the distortion meter reads within adjustment limits.
- Set the TAPE SPEED selector to 1.2cm and repeat steps 1 to 4.
- If the adjustment limits are not satisfied, soldering the tap as follows.

#### Adjustment limits :

tape speed	distortion
2.4cm/s	within 10%
1.2cm/s	within 14%

Soldering Point : main board (conductor side)

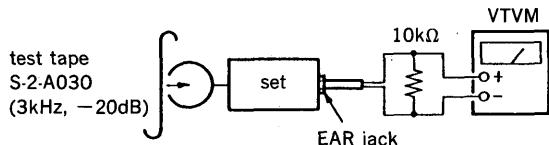


If the adjustment limits  
are not satisfied, soldering  
the tap.

### Record/playback Head Azimuth Adjustment

#### Procedure :

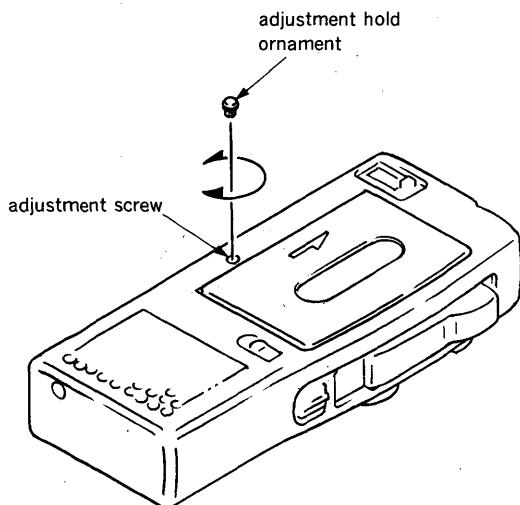
- Mode : LISTEN



- Turn the adjustment screw for maximum VTVM reading.

Note : Several peaks may appear, but take the maximum.

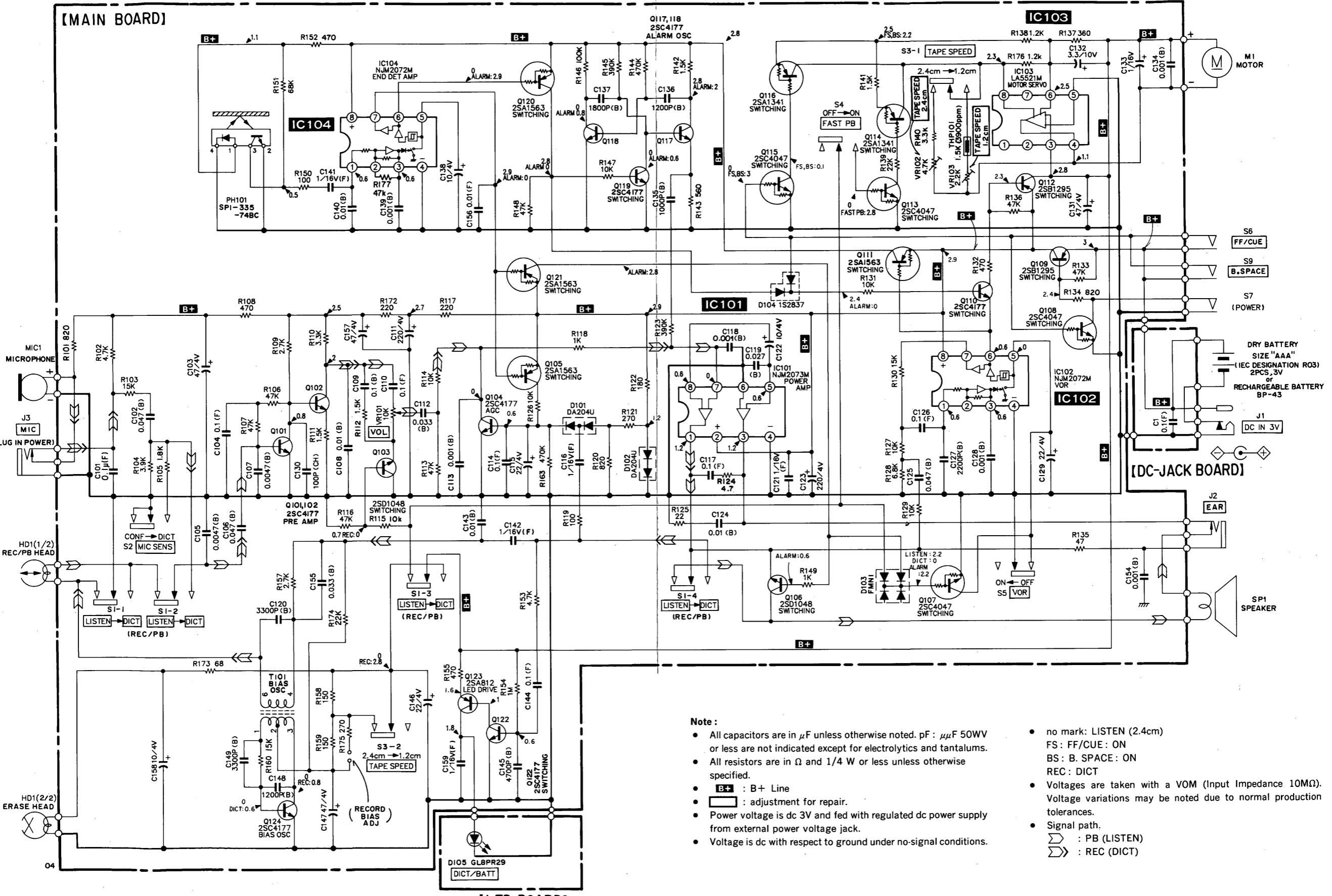
### Adjustment Location :



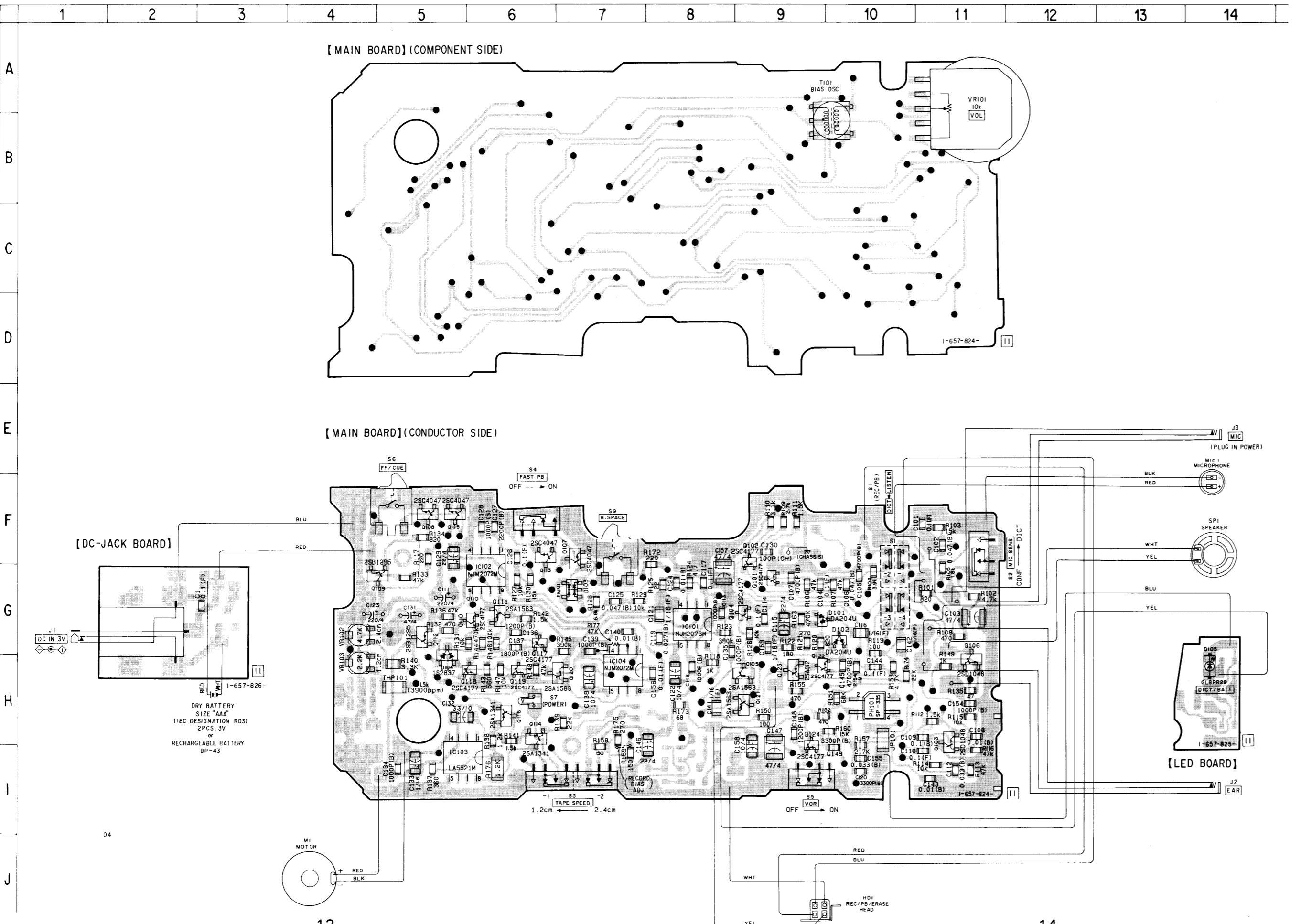
## SECTION 5 DIAGRAMS

### 5-1. SCHEMATIC DIAGRAM—MAIN SECTION (BM-575)—

1      2      3      4      5      6      7      8      9      10      11      12      13      14      15



## 5-2. PRINTED WIRING BOARDS—MAIN SECTION (BM-575)—



## • Semiconductor Location

Ref. No.	Location
D101	G-10
D102	G-10
D103	G-7
D104	H-5
D105	H-14
IC101	G-8
IC102	G-6
IC103	I-5
IC104	H-7
Q101	G-9
Q102	F-9
Q103	H-11
Q104	G-9
Q105	H-9
Q106	H-11
Q107	F-7
Q108	F-5
Q109	G-5
Q110	G-6
Q111	G-6
Q112	G-5
Q113	F-6
Q114	H-6
Q115	F-5
Q116	H-6
Q117	G-6
Q118	H-6
Q119	H-6
Q120	H-7
Q121	H-9
Q122	H-9
Q123	H-9
Q124	H-9

## Note :

- — : parts extracted from the conductor side.
- ● : Through hole.
- ■ : Pattern on the side which is seen.  
(The other layer's patterns are not indicated.)

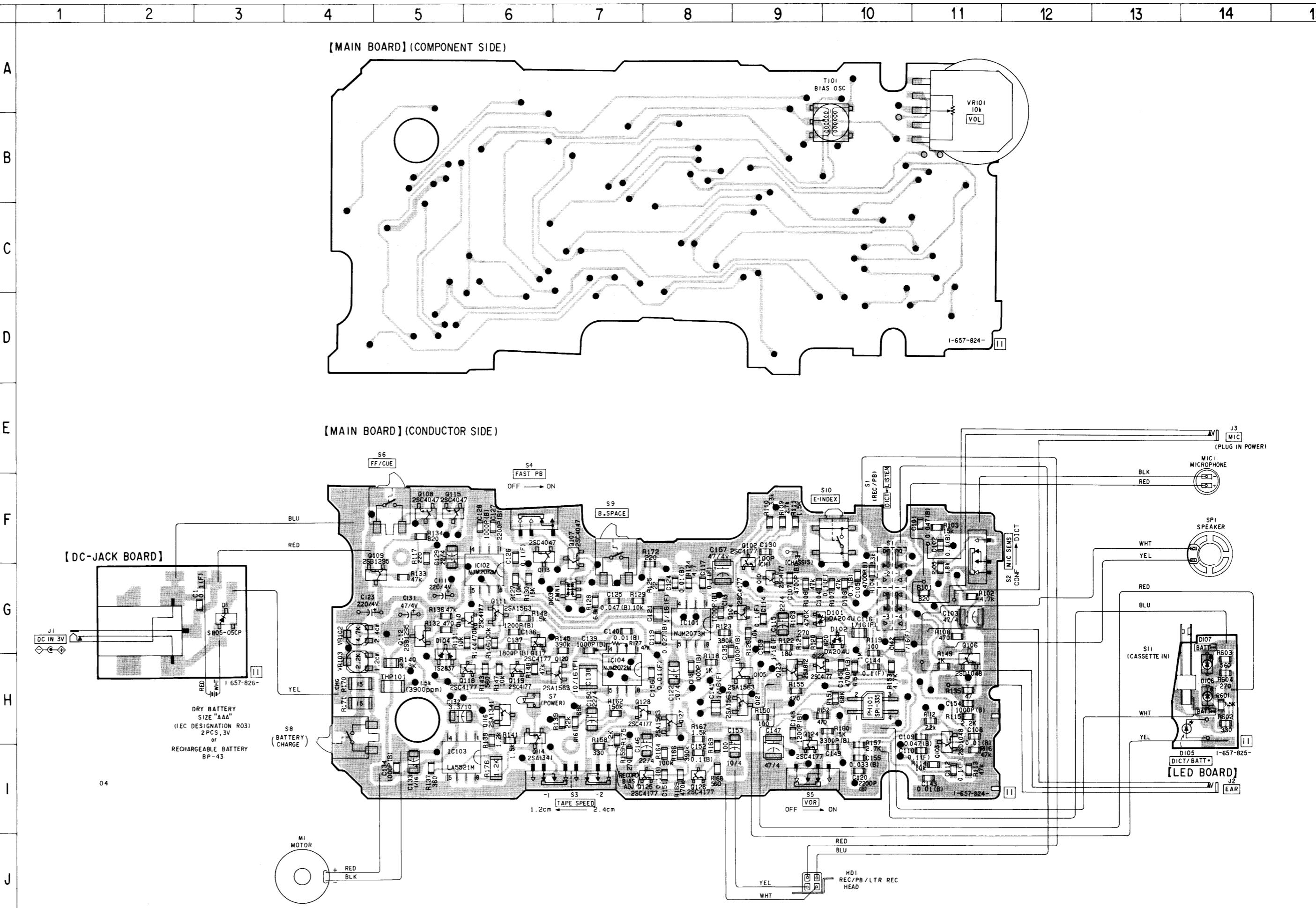
## 5-3. PRINTED WIRING BOARDS—MAIN SECTION (BM-577)—

## • Semiconductor Location

Ref. No.	Location
D1	G-3
D101	G-10
D102	G-10
D103	G-7
D104	G-5
D105	H-14
D106	H-14
D107	G-14
IC101	G-8
IC102	G-6
IC103	I-5
IC104	H-7
Q101	G-9
Q102	F-9
Q103	H-11
Q104	G-9
Q105	H-9
Q106	H-11
Q107	F-7
Q108	F-5
Q109	G-5
Q110	G-6
Q111	G-6
Q112	G-5
Q113	F-6
Q114	H-6
Q115	F-5
Q116	H-6
Q117	G-6
Q118	H-6
Q119	H-6
Q120	H-7
Q121	H-9
Q122	H-9
Q123	H-9
Q124	H-9
Q125	I-7
Q126	I-8
Q127	H-8
Q128	H-7

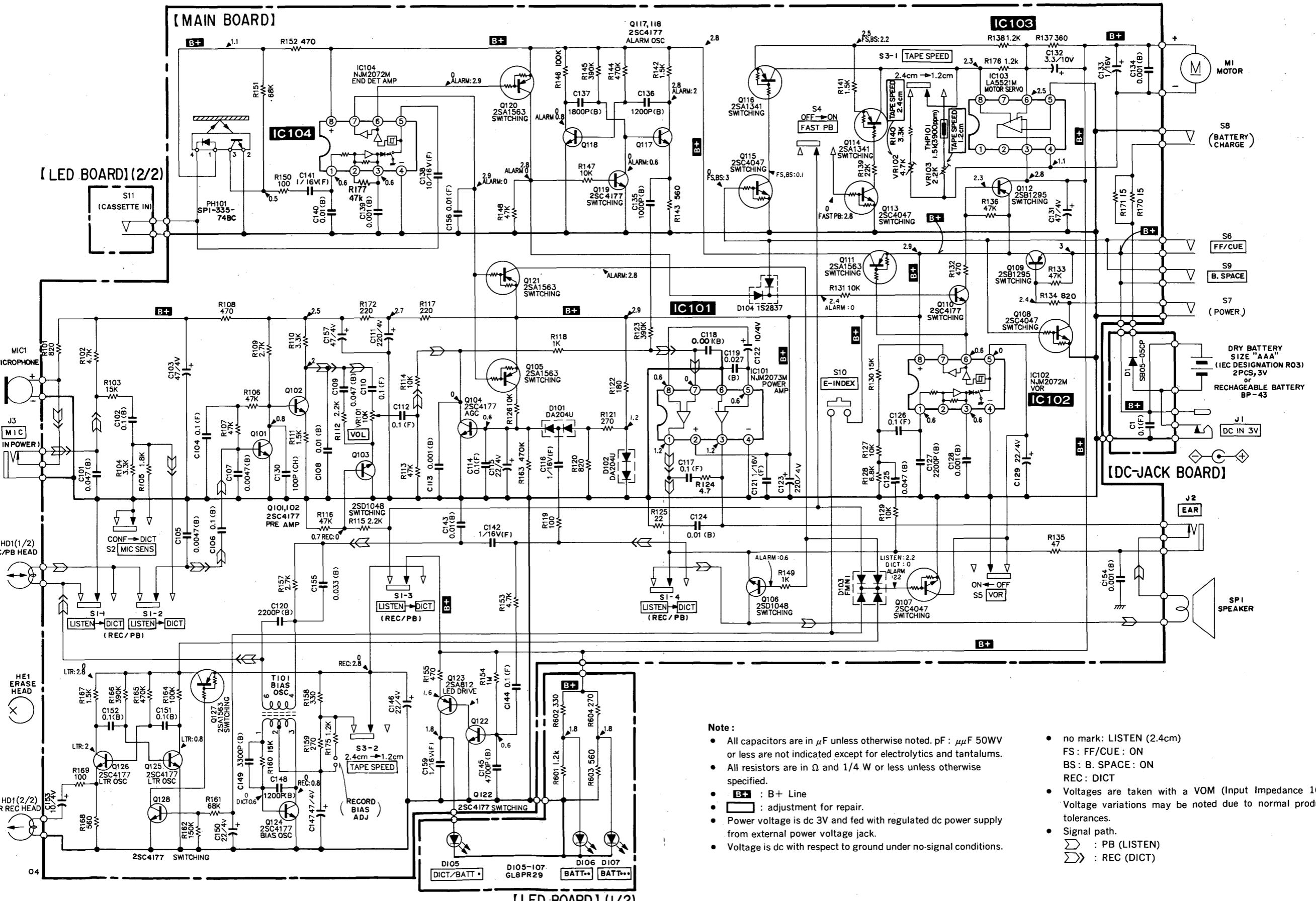
## Note:

- : parts extracted from the conductor side.
- : Through hole.
- : Pattern on the side which is seen.  
(The other layer's patterns are not indicated.)



#### **5-4. SCHEMATIC DIAGRAM—MAIN SECTION (BM-577)—**

1      2      3      4      5      6      7      8      9      10     11     12     13     14     15



### Note

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF :  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/4 W or less unless otherwise specified.
-  : B+ Line
-  : adjustment for repair.
- Power voltage is dc 3V and fed with regulated dc power supply from external power voltage jack.
- Voltage is dc with respect to ground under no-signal conditions.
- no mark: LISTEN (2.4cm)  
FS : FF/CUE : ON  
BS : B. SPACE : ON  
REC : DICT
- Voltages are taken with a VOM (Input Impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.  
 : PB (LISTEN)  
 : REC (DICT)

## SECTION 6 EXPLODED VIEWS

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● -XX and -X mean standardized parts, so they may have some difference from the original one.

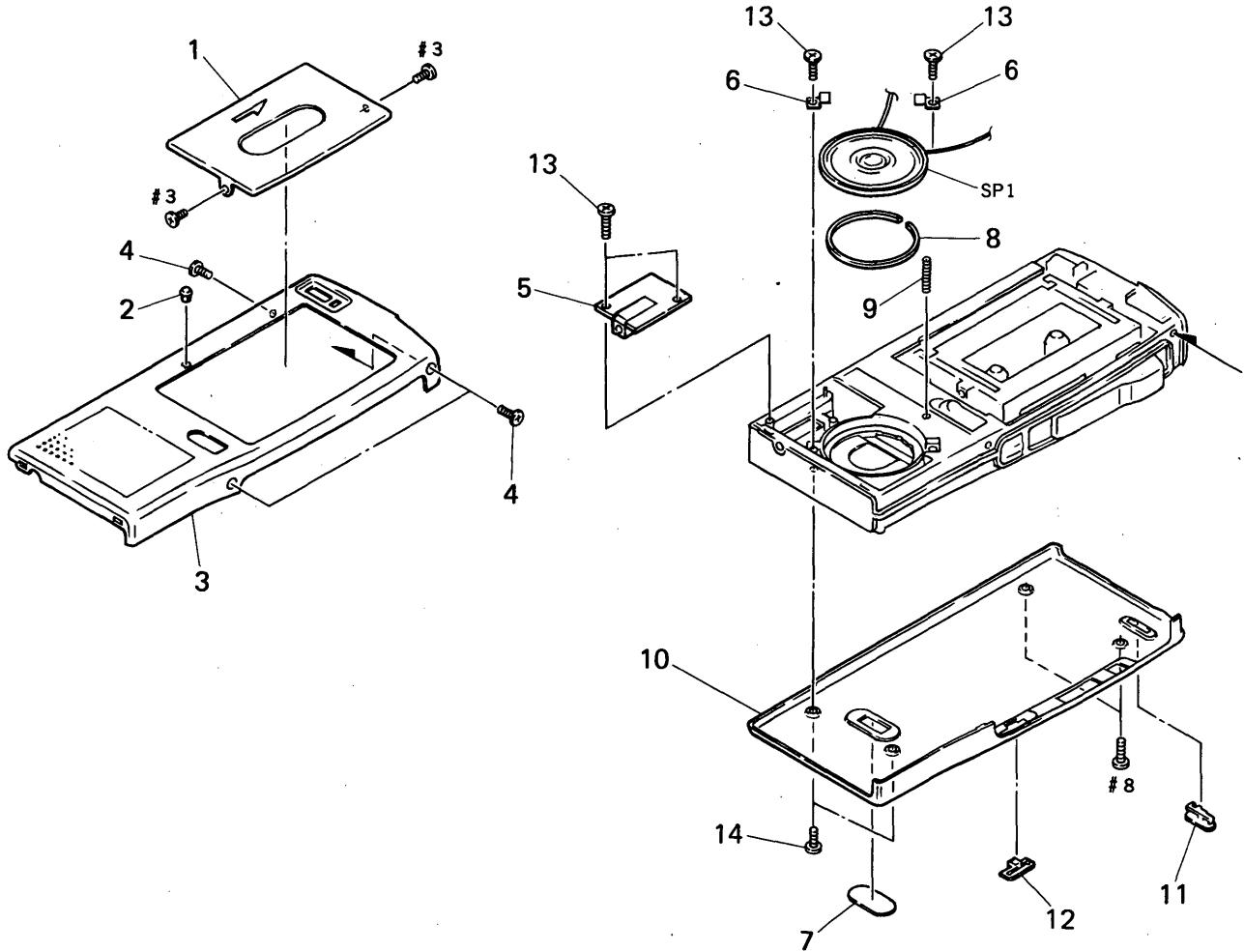
- Color Indication of Appearance Parts  
Example :

KNOB, BALANCE (WHITE)...(RED)

↑  
Parts Color Cabinet's Color

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

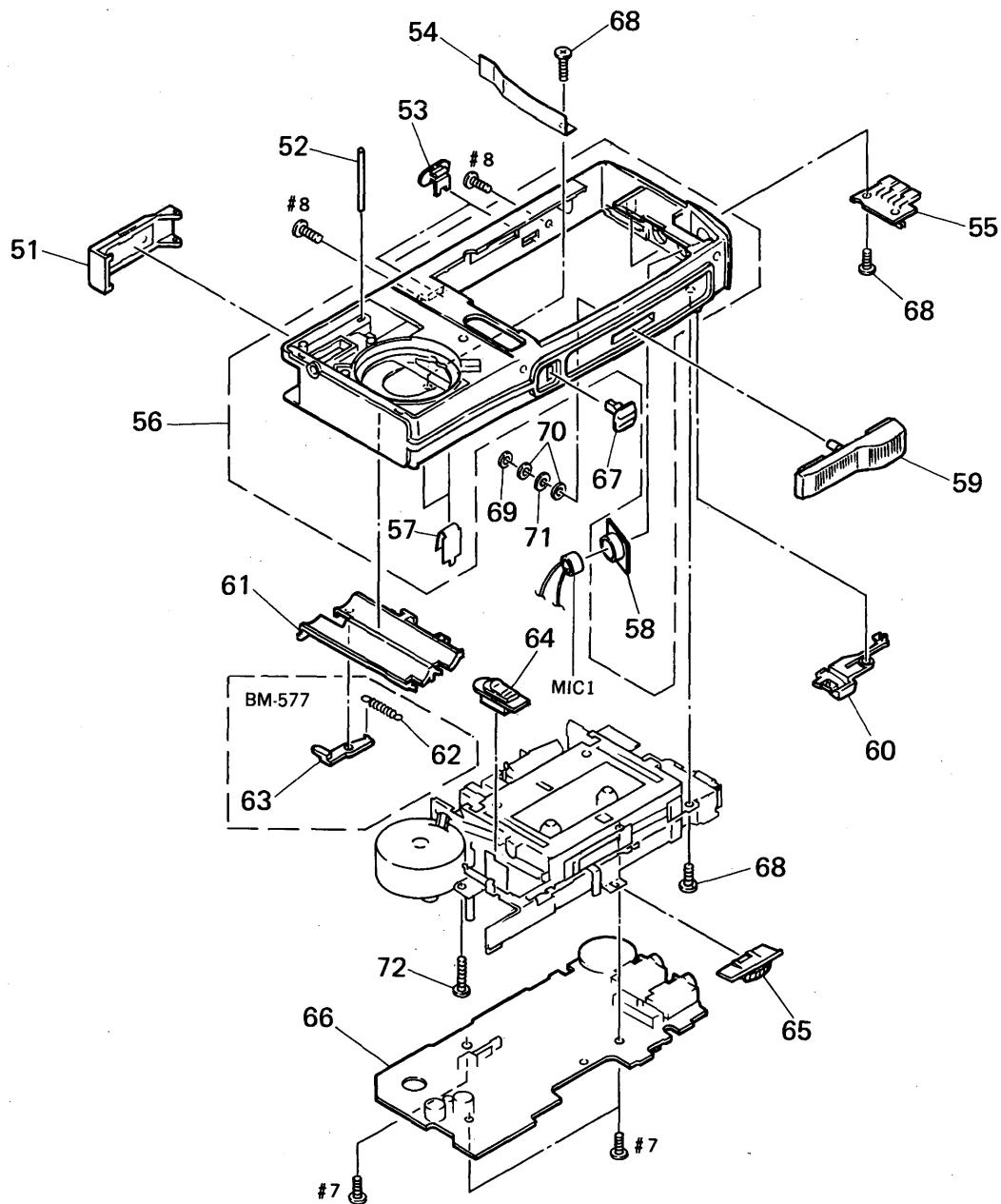
### 6-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	A-3042-794-A	LID (CASSETTE) ASSY	
2	3-578-232-21	ORNAMENT, ADJUSTMENT HOLE	
3	A-3042-786-A	CABINET (FRONT) ASSY (BM-575)	
3	A-3042-789-A	CABINET (FRONT) ASSY (BM-577)	
4	3-672-586-01	SCREW (1.4), TAPPING	
* 5	1-657-826-11	DC-JACK BOARD	
* 6	3-927-397-01	BRACKET, SP	
7	3-927-400-01	PLATE, BLIND	
8	3-927-396-01	CUSHION, SP	

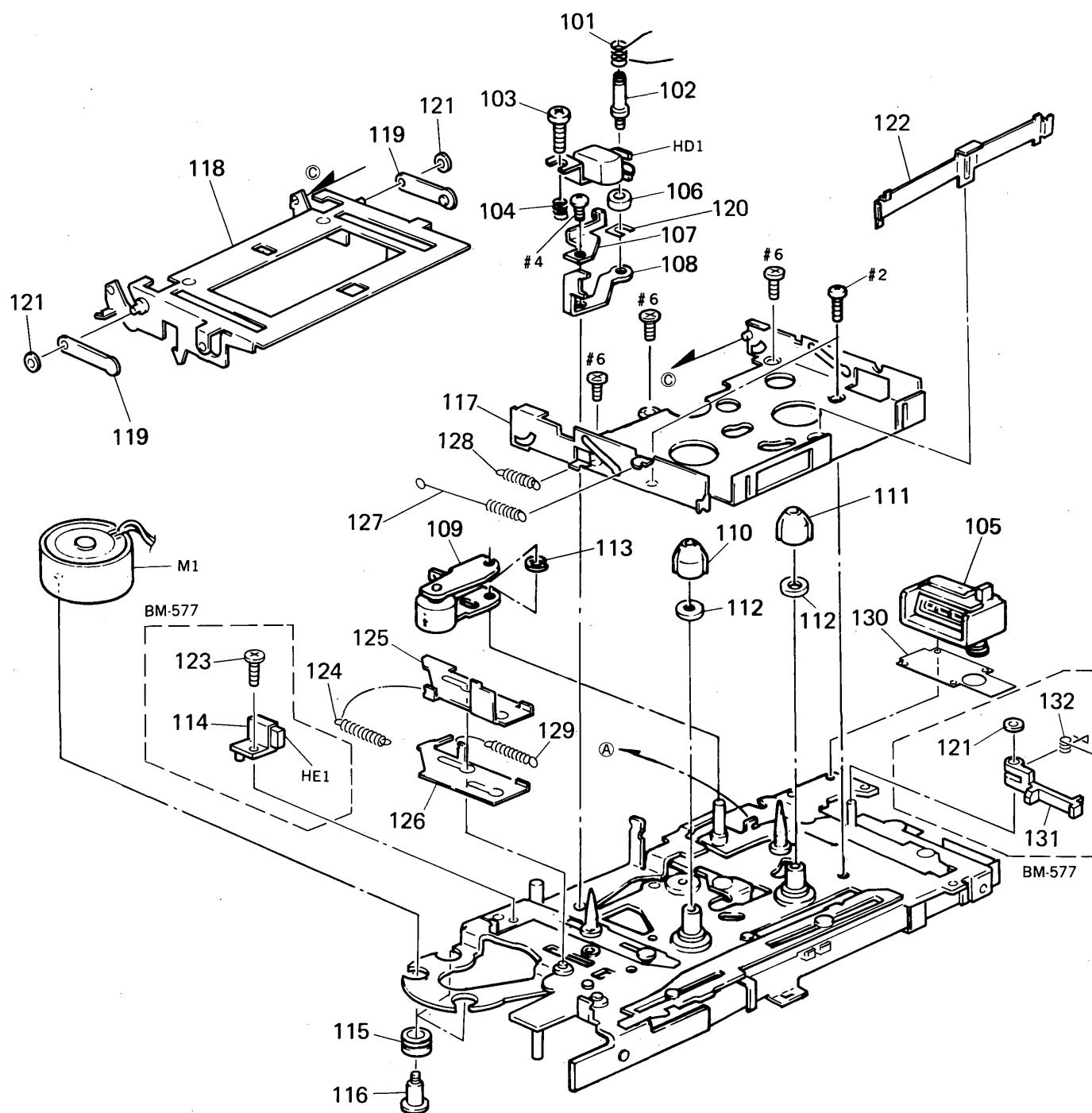
Ref. No.	Part No.	Description	Remark
9	3-927-395-01	SPRING, COMPRESSION	
10	3-926-697-01	CABINET (REAR) (BM-577)	
10	3-926-697-11	CABINET (REAR) (BM-575)	
11	3-927-405-01	KNOB (MIC SENS)	
12	3-927-406-01	KNOB (FAST PB)	
13	3-309-597-01	SCREW (1.4), TAPPING	
14	3-947-677-01	SCREW (1.7X4), TAPPING (B)	
SP1	1-504-961-11	SPEAKER	

## 6-2. CHASSIS SECTION



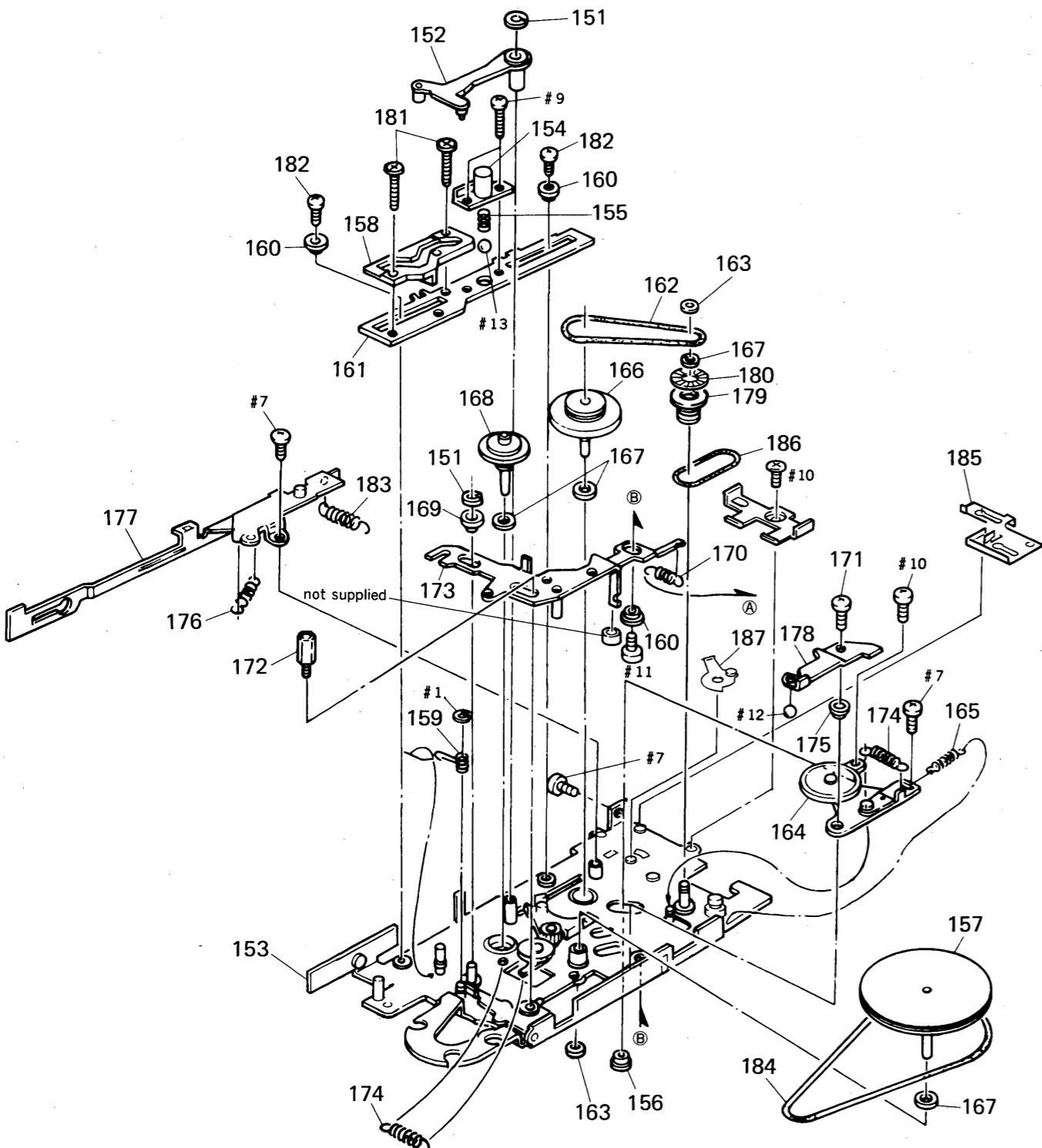
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-3042-793-A	LID ASSY, BATTERY CASE		63	3-927-401-01	LEVER, CHARGE SWITCH (BM-577)	
52	3-927-394-01	SHAFT (BATTERY CASE LID)		64	3-927-399-01	BUTTON (EJECT)	
53	3-927-398-01	KNOB (TAPE SPEED)		65	3-927-403-01	KNOB (FF/CUE)	
* 54	3-927-393-01	SPRING, BATTERY CASE LID		* 66	A-3016-730-A	MAIN BOARD, COMPLETE (BM-575)	
* 55	1-657-825-11	LED BOARD		* 66	A-3016-735-A	MAIN BOARD, COMPLETE (BM-577)	
56	A-3042-788-A	CABINET (MIDDLE) ASSY (BM-575)		67	3-927-392-01	BUTTON (LOCK) (BM-575)	
56	A-3042-791-A	CABINET (MIDDLE) ASSY (BM-577)		68	3-309-597-01	SCREW (1.4), TAPPING	
57	3-927-413-01	SPRING, BATTERY		69	3-321-813-01	WASHER, COTTER POLYETHYLENE	
58	3-306-145-01	HOLDER (MICROPHONE)		70	3-701-437-01	WASHER	
59	A-3042-792-A	BUTTON ASSY, CONTROL		* 71	3-557-857-01	CUSHION, VIBRATION PREVENTION	
60	3-927-404-01	BUTTON (E-INDEX)		72	3-309-597-61	SCREW (1.4X6), TAPPING	
* 61	3-927-499-01	COVER, BATTERY		MIC1	1-542-197-11	MICROPHONE, ELECTRET CONDENSER	
62	3-927-402-01	SPRING, TENSION (BM-577)					

**6-3. MECHANISM DECK SECTION (1)**  
**(MB-575-50 : BM-575)**  
**(MB-577-50 : BM-577)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-306-149-01	SPRING, TORSION		120	3-578-138-01	SHIM (t=0.1)	
102	3-306-165-01	SHAFT (HEAD FITTING)		120	3-578-138-11	SHIM (t=0.2)	
103	3-704-375-01	SCREW (1.7X5.5), (+P), PRECISION		121	3-315-384-11	WASHER, STOPPER	
104	3-570-558-00	SPRING, COMPRESSION		* 122	3-927-428-01	RETAINER (A), CASSETTE	
105	1-548-516-00	TIMER, TAPE		123	3-704-374-01	SCREW (1.4X2.5), (+P), PRECISION (BM-577)	
106	3-306-164-01	SPACER (HEAD)		124	3-927-425-01	SPRING, TENSION	
* 107	3-302-476-00	CLAMP		* 125	3-924-116-01	LEVER, EJECT	
* 108	3-302-464-00	GUIDE, TAPE		* 126	3-924-115-01	LEVER, LOCK	
109	X-3302-409-00	PINCH LEVER ASSY		127	3-927-427-01	SPRING, TENSION	
110	3-302-459-00	CLAW (S), REEL		128	3-927-426-01	SPRING, TENSION	
111	3-302-460-00	CLAW (T), REEL		129	3-927-424-01	SPRING, TENSION	
112	3-701-436-01	WASHER, 1.6		130	3-928-722-01	PLATE, COUNTER	
113	3-578-255-11	RING (E1.5), RETAINING		* 131	3-927-441-01	LEVER, CASSETTE DETECTION (BM-577)	
* 114	3-302-474-00	BRACKET, ERASE HEAD (BM-577)		132	3-927-442-01	SPRING, CASSETTE DETECTION (BM-577)	
115	3-309-836-01	SHAFT, FITTING, MOTOR		HD1	1-500-271-11	HEAD, MAGNETIC (REC/PB/ERASE) (BM-575)	
116	3-570-770-00	CUSHION (A), MOTOR		HD1	1-543-725-11	HEAD, MAGNETIC (REC/PB) (BM-577)	
117	X-3370-774-1	PANEL ASSY, SUB		HE1	8-825-772-01	ESF194-62G (ERASE HEAD) (BM-577)	
118	X-3370-775-1	HOLDER ASSY, LID		M1	A-3042-785-A	MOTOR ASSY	
* 119	X-3370-773-1	ARM ASSY					

**6-4. MECHANISM DECK SECTION (2)**  
**(MB-575-50 : BM-575)**  
**(MB-577-50 : BM-577)**



# SECTION 7

## ELECTRICAL PARTS LIST

**DC-JACK**   **LED**   **MAIN**

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board.

● SEMICONDUCTORS

In each case, u:  $\mu$ , for example:

uA ...  $\mu$ A... uPA...  $\mu$ PA...

uPB...  $\mu$ PB... uPC...  $\mu$ PC... uPD...  $\mu$ PD...

● CAPACITORS

uF:  $\mu$ F

● COILS

uH:  $\mu$ H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
*	1-657-826-11	DC-JACK BOARD	*****	*	A-3016-730-A	MAIN BOARD, COMPLETE (BM-575)		
< CAPACITOR >								
C1	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C101	1-164-156-11	CERAMIC CHIP	0.1uF
< DIODE >								
D1	8-719-938-75	DIODE	SB05-05CP (BM-577)		C101	1-165-176-11	CERAMIC CHIP	0.047uF
< JACK >								
J1	1-764-628-11	JACK, DC (POLARITY UNIFIED TYPE)	(DC IN 3V)		C102	1-107-826-11	CERAMIC CHIP	0.1uF
*****								
*	1-657-825-11	LED BOARD	*****		C102	1-165-176-11	CERAMIC CHIP	0.047uF
< DIODE >								
D105	8-719-047-19	LED	GL8PR29 (DICT/BATT) (BM-575)		C103	1-104-908-11	TANTAL. CHIP	47uF
D105	8-719-047-19	LED	GL8PR29 (DICT/BATT .) (BM-577)		C104	1-164-156-11	CERAMIC CHIP	0.1uF
D106	8-719-047-19	LED	GL8PR29 (BATT . .) (BM-577)		C105	1-162-968-11	CERAMIC CHIP	0.0047uF
D107	8-719-047-19	LED	GL8PR29 (BATT . . .) (BM-577)		C106	1-107-826-11	CERAMIC CHIP	0.1uF
< RESISTOR >								
R156	1-216-833-11	METAL CHIP	10K 5%	1/16W	C106	1-165-176-11	CERAMIC CHIP	0.047uF
R601	1-216-822-11	METAL CHIP	1.2K 5%	1/16W	C110	1-164-156-11	CERAMIC CHIP	0.1uF
				(BM-577)	C111	1-126-781-11	ELECT	220uF
R602	1-216-815-11	METAL CHIP	330 5%	1/16W	C112	1-164-156-11	CERAMIC CHIP	0.1uF
				(BM-577)	C112	1-164-677-11	CERAMIC CHIP	0.033uF
R603	1-216-818-11	METAL CHIP	560 5%	1/16W	C113	1-162-964-11	CERAMIC CHIP	0.001uF
				(BM-577)	C114	1-164-156-11	CERAMIC CHIP	0.1uF
R604	1-216-814-11	METAL CHIP	270 5%	1/16W	C115	1-104-847-11	TANTAL. CHIP	22uF
				(BM-577)	C116	1-164-346-11	CERAMIC CHIP	1uF
< SWITCH >								
S11	1-570-395-11	SWITCH, LEAF (CASSETTE IN)	(BM-577)		C117	1-164-156-11	CERAMIC CHIP	0.1uF
*****								
					C118	1-162-964-11	CERAMIC CHIP	0.001uF
					C119	1-104-700-11	CERAMIC CHIP	0.027uF
					C120	1-162-966-11	CERAMIC CHIP	0.0022uF
							(BM-577)	

# MAIN

Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
C120	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V (BM-575)	D101	8-719-941-23	DIODE	DA204U
C121	1-164-346-11	CERAMIC CHIP	1uF		16V	D102	8-719-941-23	DIODE	DA204U
C122	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	D103	8-719-948-98	DIODE	FMN1-T-148
C123	1-126-781-11	ELECT	220uF	20%	4V	D104	8-719-801-78	DIODE	ISS184
C124	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V				
C125	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V				< IC >
C126	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC101	8-759-701-02	IC	NJM2073M
C127	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	IC102	8-759-701-51	IC	NJM2072M
C128	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC103	8-759-804-43	IC	LA5521M
C129	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	IC104	8-759-701-51	IC	NJM2072M
C130	1-162-927-11	CERAMIC CHIP	100PF	5%	50V				
C131	1-126-779-91	ELECT	47uF	20%	4V				< JACK >
C132	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V	J2	1-766-156-11	JACK (EAR)	
C133	1-135-091-91	TANTAL. CHIP	1uF	20%	16V	J3	1-766-156-11	JACK (MIC)	
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V				
C135	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V				< JUMPER RESISTOR >
C136	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	JP101	1-216-296-00	METAL CHIP	0 5% 1/8W (BM-575)
C137	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V				
C138	1-104-932-11	CERAMIC CHIP	10uF		16V (BM-577)				< PHOTO REFLECTOR >
C138	1-135-201-11	TANTALUM CHIP	10uF	20%	4V (BM-575)	PH101	8-749-011-74	PHOTO REFLECTOR	SPI-335-74BC
C139	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V				< TRANSISTOR >
C140	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q101	8-729-117-32	TRANSISTOR	2SC4177
C141	1-164-346-11	CERAMIC CHIP	1uF		16V	Q102	8-729-117-32	TRANSISTOR	2SC4177
C142	1-164-346-11	CERAMIC CHIP	1uF		16V	Q103	8-729-800-37	TRANSISTOR	2SD1048-X7
C143	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q104	8-729-117-32	TRANSISTOR	2SC4177
C144	1-164-156-11	CERAMIC CHIP	0.1uF		25V	Q105	8-729-805-91	TRANSISTOR	2SA1563
C145	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	Q106	8-729-800-37	TRANSISTOR	2SD1048-X7
C146	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	Q107	8-729-805-94	TRANSISTOR	2SC4047
C147	1-104-908-11	TANTAL. CHIP	47uF	20%	4V	Q108	8-729-805-94	TRANSISTOR	2SC4047
C148	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V	Q109	8-729-807-87	TRANSISTOR	2SB1295-UL6
C149	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	Q110	8-729-117-32	TRANSISTOR	2SC4177
C150	1-104-847-11	TANTAL. CHIP	22uF	20%	4V (BM-577)	Q111	8-729-805-91	TRANSISTOR	2SA1563
C151	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (BM-577)	Q112	8-729-807-87	TRANSISTOR	2SB1295-UL6
C152	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (BM-577)	Q113	8-729-805-94	TRANSISTOR	2SC4047
C153	1-135-201-11	TANTALUM CHIP	10uF	20%	4V (BM-577)	Q114	8-729-901-06	TRANSISTOR	DTA144EK
C154	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	Q115	8-729-805-94	TRANSISTOR	2SC4047
C155	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	Q116	8-729-901-06	TRANSISTOR	DTA144EK
C156	1-162-974-11	CERAMIC CHIP	0.01uF		50V	Q117	8-729-117-32	TRANSISTOR	2SC4177
C157	1-104-908-11	TANTAL. CHIP	47uF	20%	4V	Q118	8-729-117-32	TRANSISTOR	2SC4177
C158	1-135-201-11	TANTALUM CHIP	10uF	20%	4V (BM-575)	Q119	8-729-117-32	TRANSISTOR	2SC4177
C159	1-164-346-11	CERAMIC CHIP	1uF		16V	Q120	8-729-805-91	TRANSISTOR	2SA1563
						Q121	8-729-805-91	TRANSISTOR	2SA1563
						Q122	8-729-117-32	TRANSISTOR	2SC4177
						Q123	8-729-216-22	TRANSISTOR	2SA1162-G
						Q124	8-729-117-32	TRANSISTOR	2SC4177
						Q125	8-729-117-32	TRANSISTOR	2SC4177 (BM-577)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q126	8-729-117-32	TRANSISTOR	2SC4177 (BM-577)	R137	1-216-269-11	METAL GLAZE	360 5% 1/16W
Q127	8-729-805-91	TRANSISTOR	2SA1563 (BM-577)	R138	1-216-822-11	METAL CHIP	1.2K 5% 1/16W
Q128	8-729-117-32	TRANSISTOR	2SC4177 (BM-577)	R139	1-216-837-11	METAL CHIP	22K 5% 1/16W
< RESISTOR >							
R101	1-216-820-11	METAL CHIP	820 5% 1/16W	R140	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R102	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R141	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
R103	1-216-835-11	METAL CHIP	15K 5% 1/16W	R142	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
R104	1-216-827-11	METAL CHIP	3.3K 5% 1/16W (BM-577)	R143	1-216-818-11	METAL CHIP	560 5% 1/16W
R104	1-216-828-11	METAL CHIP	3.9K 5% 1/16W (BM-575)	R144	1-216-853-11	METAL CHIP	470K 5% 1/16W
R105	1-216-824-11	METAL CHIP	1.8K 5% 1/16W	R145	1-216-852-11	METAL CHIP	390K 5% 1/16W
R106	1-216-841-11	METAL CHIP	47K 5% 1/16W	R146	1-216-845-11	METAL CHIP	100K 5% 1/16W
R107	1-216-841-11	METAL CHIP	47K 5% 1/16W	R147	1-216-833-11	METAL CHIP	10K 5% 1/16W
R108	1-216-817-11	METAL CHIP	470 5% 1/16W	R148	1-216-841-11	METAL CHIP	47K 5% 1/16W
R109	1-216-826-11	METAL CHIP	2.7K 5% 1/16W	R149	1-216-821-11	METAL CHIP	1K 5% 1/16W
R110	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R150	1-216-809-11	METAL CHIP	100 5% 1/16W
R111	1-216-823-11	METAL CHIP	1.5K 5% 1/16W	R151	1-216-843-11	METAL CHIP	68K 5% 1/16W
R112	1-216-823-11	METAL CHIP	1.5K 5% 1/16W (BM-575)	R152	1-216-817-11	METAL CHIP	470 5% 1/16W
R112	1-216-825-11	METAL CHIP	2.2K 5% 1/16W (BM-577)	R153	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R113	1-216-841-11	METAL CHIP	47K 5% 1/16W	R154	1-216-857-11	METAL CHIP	1M 5% 1/16W
R114	1-216-833-11	METAL CHIP	10K 5% 1/16W	R155	1-216-817-11	METAL CHIP	470 5% 1/16W
R115	1-216-825-11	METAL CHIP	2.2K 5% 1/16W (BM-577)	R157	1-216-826-11	METAL CHIP	2.7K 5% 1/16W
R115	1-216-833-11	METAL CHIP	10K 5% 1/16W (BM-575)	R158	1-216-811-11	METAL CHIP	150 5% 1/16W (BM-575)
R116	1-216-841-11	METAL CHIP	47K 5% 1/16W	R158	1-216-815-11	METAL CHIP	330 5% 1/16W (BM-577)
R117	1-216-813-11	METAL CHIP	220 5% 1/16W	R159	1-216-811-11	METAL CHIP	150 5% 1/16W (BM-575)
R118	1-216-821-11	METAL CHIP	1K 5% 1/16W	R159	1-216-814-11	METAL CHIP	270 5% 1/16W (BM-577)
R119	1-216-809-11	METAL CHIP	100 5% 1/16W	R160	1-216-835-11	METAL CHIP	15K 5% 1/16W
R120	1-216-820-11	METAL CHIP	820 5% 1/16W	R161	1-216-843-11	METAL CHIP	68K 5% 1/16W (BM-577)
R121	1-216-814-11	METAL CHIP	270 5% 1/16W	R162	1-216-847-11	METAL CHIP	150K 5% 1/16W (BM-577)
R122	1-216-812-11	METAL CHIP	180 5% 1/16W	R163	1-216-853-11	METAL CHIP	470K 5% 1/16W
R123	1-216-852-11	METAL CHIP	390K 5% 1/16W	R164	1-216-845-11	METAL CHIP	100K 5% 1/16W (BM-577)
R124	1-216-793-11	METAL GLAZE	4.7 5% 1/16W	R165	1-216-853-11	METAL CHIP	470K 5% 1/16W (BM-577)
R125	1-216-801-11	METAL CHIP	22 5% 1/16W	R166	1-216-852-11	METAL CHIP	390K 5% 1/16W (BM-577)
R126	1-216-833-11	METAL CHIP	10K 5% 1/16W	R167	1-216-823-11	METAL CHIP	1.5K 5% 1/16W (BM-577)
R127	1-216-833-11	METAL CHIP	10K 5% 1/16W	R168	1-216-818-11	METAL CHIP	560 5% 1/16W (BM-577)
R128	1-216-831-11	METAL CHIP	6.8K 5% 1/16W	R169	1-216-809-11	METAL CHIP	100 5% 1/16W (BM-577)
R129	1-216-833-11	METAL CHIP	10K 5% 1/16W	R170	1-216-154-00	METAL GLAZE	15 5% 1/8W (BM-577)
R130	1-216-835-11	METAL CHIP	15K 5% 1/16W	R171	1-216-154-00	METAL GLAZE	15 5% 1/8W (BM-577)
R131	1-216-833-11	METAL CHIP	10K 5% 1/16W	R172	1-216-813-11	METAL CHIP	220 5% 1/16W
R132	1-216-817-11	METAL CHIP	470 5% 1/16W				
R133	1-216-841-11	METAL CHIP	47K 5% 1/16W				
R134	1-216-820-11	METAL CHIP	820 5% 1/16W				
R135	1-216-805-11	METAL CHIP	47 5% 1/16W				
R136	1-216-841-11	METAL CHIP	47K 5% 1/16W				

## MAIN

Ref. No.	Part No.	Description	Remark		
R173	1-216-807-11	METAL CHIP	68	5%	1/16W (BM-575)
R174	1-216-837-11	METAL CHIP	22K	5%	1/16W (BM-575)
R175	1-216-814-11	METAL CHIP	270	5%	1/16W (BM-575)
R175	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (BM-577)
R176	1-216-200-11	METAL GLAZE	1.2K	5%	1/8W
R177	1-216-841-11	METAL CHIP	47K	5%	1/16W  < SWITCH >
S1	1-762-456-11	SWITCH, SLIDE (REC/PB)			
S2	1-572-922-11	SWITCH, SLIDE (MIC SENS)			
S3	1-571-277-31	SWITCH, SLIDE (TAPE SPEED)			
S4	1-572-922-11	SWITCH, SLIDE (FAST PB)			
S5	1-571-275-31	SWITCH, SLIDE (VOR)			
S6	1-572-288-11	SWITCH, PUSH (FF/CUE)			
S7	1-553-817-00	SWITCH, LEAF (POWER)			
S8	1-572-688-11	SWITCH, PUSH (BATTERY CHARGE) (BM-577)			
S9	1-572-688-11	SWITCH, PUSH (B. SPACE)			
S10	1-692-088-11	SWITCH, TACTILE (E-INDEX) (BM-577)			
		< TRANSFORMER >			
T101	1-433-286-11	TRANSFORMER, BIAS OSCILLATION			
		< THERMISTOR(POSITIVE) >			
THP101	1-808-956-11	THERMISTOR, POSITIVE			
		< VARIABLE RESISTOR >			
VR101	1-223-749-11	RES, VAR, CARBON 10K/10K (VOL)			
VR102	1-238-089-11	RES, ADJ, CERMET 4.7K			
VR103	1-238-088-11	RES, ADJ, CERMET 2.2K			
*****					
MISCELLANEOUS					
*****					
105	1-548-516-00	TIMER, TAPE			
HD1	1-500-271-11	HEAD, MAGNETIC (REC/PB/ERASE) (BM-575)			
HD1	1-543-725-11	HEAD, MAGNETIC (REC/PB) (BM-577)			
HE1	8-825-772-01	ESF194-62G (ERASE HEAD) (BM-577)			
M1	A-3042-785-A	MOTOR ASSY			
MIC1	1-542-197-11	MICROPHONE, ELECTRET CONDENSER			
SP1	1-504-961-11	SPEAKER			
*****					

Ref. No.	Part No.	Description	Remark
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## \*\*\*\*\*

**HARDWARE LIST**

## \*\*\*\*\*

- #1 7-624-101-04 STOP RING 1.2 (E TYPE)
- #2 7-627-451-07 SCREW, PRECISION +K 1.4X1.6
- #3 7-627-451-08 SCREW, PRECISION +K 1.4X1.6
- #4 7-627-551-17 SCREW, PRECISION +P 1.4X2
- #5 7-627-551-27 SCREW, PRECISION +P 1.4X2.5
- #6 7-627-551-47 SCREW, PRECISION +P 1.4X1.4
- #7 7-627-850-07 SCREW, PRECISION +P 1.4X2
- #8 7-627-850-08 SCREW, PRECISION +P 1.4X2
- #9 7-627-850-17 SCREW, PRECISION +P 1.4X2.5
- #10 7-627-850-47 SCREW, PRECISION +P 1.4X1.6
- #11 7-627-850-97 SCREW, PRECISION +P 1.4X2.2
- #12 7-671-111-11 BALL, STEEL 1.5MM
- #13 7-671-155-01 BALL, STEEL 3MM

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## ACCESSORIES &amp; PACKING MATERIALS

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- 3-800-079-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH) (AEP)
- 3-800-079-21 MANUAL, INSTRUCTION (ENGLISH) (US)
- 3-800-079-41 MANUAL, INSTRUCTION (GERMAN, DUTCH) (AEP)
- 3-927-586-01 CASE, CARRYING (BM-577)
- 3-927-765-01 INDIVIDUAL CARTON (BM-575)
- 3-927-767-01 INDIVIDUAL CARTON (BM-577)

# BM-575/577

**SONY.  
SERVICE MANUAL**

*US Model  
AEP Model*

## SUPPLEMENT-1

File this supplement with the service manual.

**Subject : Addition of the BM-575 AEP model.**

**The AEP model is identical with the US model except for the following parts.**

• DIFFERENT PARTS LIST

ACCESSORIES & PACKING MATERIALS

BM-575 US Model		BM-575 AEP Model	
<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
	_____	3-800-079-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (AEP)
3-800-079-21	MANUAL, INSTRUCTION (ENGLISH) (US)	_____	3-800-079-41 MANUAL, INSTRUCTION (GERMAN, DUTCH) (AEP)

# BM-575/577

## SONY® SERVICE MANUAL

US Model

BM-575/577

AEP Model

BM-577

## CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT				CORRECT		
	Ref. No.	Part No.	Description	Remark	Part No.	Description	Remark
22	67	3-927-392-01	BUTTON (LOCK) (BM-575)		3-927-392-01	BUTTON (LOCK)	